

Python Beginner Examination

Total Questions: 30

Topics: Strings, Parsing, Data Types, Functions (def), Classes

Level: Incremental (Basic → Hard)

Question Types: Multiple Choice, Code Completion, Full Coding

Part 1: Multiple Choice (10 questions)

1. What is the correct way to assign a string to a variable in Python?

- A. `str name = "Alice"`
- B. `name = "Alice"`
- C. `string name = 'Alice'`
- D. `let name = 'Alice'`

2. Which of the following is a valid function definition in Python?

- A. `function myfunc():`
- B. `def myfunc():`
- C. `define myfunc():`
- D. `func myfunc():`

3. What does the following code print?

```
print(type(3.14))
```

- A. `<class 'int'>`
- B. `<class 'float'>`
- C. `<type 'float'>`
- D. `<float>`

4. How do you access the third character in the string `s = "Python"`?

- A. `s[3]`
- B. `s(2)`
- C. `s[2]`
- D. `s[1]`

5. What is the output of this code?

```
fruit = "banana"  
print(fruit.upper())
```

- A. Banana
- B. banana
- C. BANANA
- D. `fruit.upper()`

6. Which of the following is NOT a built-in data type in Python?

- A. list
- B. map

- C. dict
- D. tuple

7. What will be printed?

```
def add(x, y):  
    return x + y  
  
print(add("2", "3"))
```

- A. 5
- B. 23
- C. 2 3
- D. Error

8. What does the `pass` statement do in Python?

- A. Exits a function
- B. Skips the current loop iteration
- C. Does nothing
- D. Returns a value

9. Which of the following creates an instance of a class `Person`?

- A. `Person.create()`
- B. `person = Person()`
- C. `Person[]`
- D. `person = new Person()`

10. What is the output?

```
x = 10  
y = x  
x = 20  
print(y)
```

- A. 10
- B. 20
- C. x
- D. Error

Part 2: Complete the Code (10 questions)

11. Fill in the blank to define a function that returns the square of a number.

```
def square(n):  
    return _____
```

12. Complete the code to check if a string starts with "A":

```
s = "Apple"
if s.____("A"):
    print("Starts with A")
```

13. Fill in the blank to declare a list with values 1, 2, 3:

```
numbers = _____
```

14. Complete the code to print all characters in “cat” using a for loop:

```
for char in "cat":
    _____
```

15. Complete the code to define a class named Dog:

```
_____ Dog:
    def __init__(self, name):
        self.name = name
```

16. Fill in the blank to convert a string to an integer:

```
s = "123"
num = _____
```

17. Complete the code to append 5 to the list lst:

```
lst = [1, 2, 3]
lst._____(5)
```

18. Fill in the blank to check if a variable x is of type int:

```
if _____:
    print("x is an integer")
```

19. Complete the code to print the length of the string word:

```
word = "hello"
print(_____)
```

20. Fill in the blank to create a dictionary with "a": 1, "b": 2:

```
my_dict = _____
```

Part 3: Full Coding (10 questions, increasing difficulty)

21. Write a function that takes a string and returns it reversed.

22. Write code to count the number of vowels in a given string.

23. Define a function that takes a sentence and returns a list of words.

24. Write a function that checks if a given word is a palindrome (reads the same forwards and backwards).

25. Write a class named `Rectangle` with attributes `width` and `height`, and a method `area` that returns the area.

26. Given a list of numbers, write code to return a new list containing only the even numbers.

27. Write a function that parses a comma-separated string of numbers and returns their sum as an integer.

28. Write code to read a string from user input and print whether it contains only digits.

29. Write a class `Book` with attributes `title` and `author`, and a method `get_info` that returns "Title by Author".

30. (Hard) Write a class `Parser` that takes a string in its constructor and has a method `count_letters` which returns the number of alphabetic letters in the string.
